

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>209143/KCS/s</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/IB 02/ 05597</b>	International filing date (day/month/year) <b>20/12/2002</b>	(Earliest) Priority Date (day/month/year) <b>28/12/2001</b>
Applicant <b>NOKIA CORPORATION</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 05 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

### 1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ Certain claims were found **unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☒ because this figure better characterizes the invention.

08

☐ None of the figures.

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04L29/06 H04L12/56

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	S. GLASS, T. HILLER, S. JACOBS, C. PERKINS: "RFC 2977: Mobile IP Authentication, Authorisation and Accounting Requirement" IETF REQUEST FOR COMMENTS, 'Online! October 2000 (2000-10), pages 1-27, XP002213102 Retrieved from the Internet: <URL:http://www.ietf.org/rfc/rfc2977.txt> 'retrieved on 2002-09-11!	1,7, 26-28
Y	page 1, paragraph 1 -page 8, paragraph 3 page 18, paragraph 5.5 --- -/--	2-6,8-25

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*8\* document member of the same patent family

Date of the actual completion of the international search

24 March 2003

Date of mailing of the international search report

04/04/2003

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	P. R. CALHOUN, W. BULLEY: "Internet Draft: DIAMETER Dial-Up (ROAMOPS) Extensions" IETF INTERNET DRAFT, 'Online! - August 1999 (1999-08) pages 1-54, XP002213103 Retrieved from the Internet: <URL:http://sunsite.ics.forth.gr/pub/internet-drafts/draft-calhoun-diameter-authent-06.txt> 'retrieved on 2002-09-11!	1
Y	the whole document	2-6, 8-23, 25
Y	--- K. BOMAN: "3GPP TSG SA WG3 Security S3#19, S3-010382, Newbury, UK: Flows related to Authenticated Registrations and Re-Registrations" 3GPP TSG SA WG3 SECURITY S3#19, 'Online! 4 - 6 July 2001, pages 1-3, XP002213104 Newbury, UK Retrieved from the Internet: <URL:http://www.3gpp.org/ftp/tsg_sa/WG3_Security/2001_meetings/TSGS3_19_London/Docs/PDF/S3-010382.pdf> 'retrieved on 2002-09-11!	24
A	the whole document	1-23, 25-28
Y	--- K. BOMAN: "3GPP TSG SA WG3 Security S3#19, S3-010402, Newbury, UK: Requirements related to private and public identities in IMS" 3GPP TSG SA WG3 SECURITY S3#19, 'Online! 4 - 6 July 2001, pages 1-13, XP002213105 Newbury, UK Retrieved from the Internet: <URL:http://www.3gpp.org/ftp/tsg_sa/WG3_Security/2001_meetings/TSGS3_19_London/Docs/PDF/S3-010402.pdf> 'retrieved on 2002-09-11!	24
A	the whole document	1-23, 25-28
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>P. R. CALHOUN, H. AKHTAR, J. ARKKO, E. GUTTMAN, A. C. RUBENS, G. ZORN: "Internet Draft: Diameter Base Protocol" IETF INTERNET DRAFT, 'Online! November 2001 (2001-11), pages 1-123, XP002213106</p> <p>Retrieved from the Internet:            &lt;URL:http://www.diameter.org/drafts/obsolete/draft-ietf-aaa-diameter-08.txt&gt;            'retrieved on 2002-09-11!            page 6, paragraph 1.0 -page 8, paragraph 1.1            page 94, paragraph 8.9 -page 95, paragraph 8.10</p>	1-28
A	<p>"Internet Draft: DIAMETER: Policy and Accounting Extension for SIP; pages i-iii, 1-17"</p> <p>IETF INTERNET DRAFT, 'Online!            15 November 1998 (1998-11-15), pages 1-17, XP002213107</p> <p>Retrieved from the Internet:            &lt;URL:http://www.cs.columbia.edu/sip/drafts/draft-pan-diameter-sip-01.txt&gt;            'retrieved on 2002-09-11!            page 3, paragraph 3.1 -page 4, paragraph 3.1</p>	1-28
A	<p>WO 01 84765 A (ERICSSON TELEFON AB L M)            8 November 2001 (2001-11-08)            the whole document</p>	1-28
A	<p>EP 1 111 872 A (NORTEL NETWORKS LTD)            27 June 2001 (2001-06-27)            the whole document</p>	1-28

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 0184765	A	08-11-2001	AU	6737801 A	12-11-2001
			WO	0184765 A2	08-11-2001
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EP 1111872	A	27-06-2001	AU	7236800 A	28-06-2001
			EP	1111872 A2	27-06-2001